

Monitoring Data Record

Project Title: R-2417BB (Site 6) COE Action ID: 200201326
Stream Name: _____ DWQ Numbers: 3378
City, County and other Location Information: Lee County, Sanford Bypass (Sta. 540+20 to 555+00 -L- RT.)
Date Construction Completed: Water was turned into the stream in Oct. 2006. Streambank reforestation was completed in Jan. 2007.
Monitoring Quarter: (3) of 8
Ecoregion: _____ 8 digit HUC unit: 03030004
USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 1,734' Urban or Rural: Rural Watershed Size: _____

Monitoring DATA collected by: M. Green and J. Young Date: 11/2/07

Applicant Information:

Name: NCDOT Roadside Environmental Unit

Address: 1425 Rock Quarry Rd. Raleigh, NC 27610

Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

Consultant Information:

Name: _____

Address: _____

Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level (1) 2 3
Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: The permittee will visually monitor the vegetative plantings on all mitigation streambanks to access and insure complete stabilization of the mitigation stream segments. This monitoring will include adequate visual monitoring of planted vegetation quarterly for a minimum of two years after final planting, and appropriate remedial actions (e.g., replanting, streambank grading, ect.). If within any monitoring year, bank stabilization is not acceptable as determined by the Corps of Engineers, and remedial action required by the Corps of Engineers is performed, the two year monitoring of the affected portions of the stream will begin again.

Section 1. PHOTO REFERENCE SITES

Total number of reference photo locations at this site: 9 photo point locations – 2 photos taken from each location

Dates reference photos have been taken at this site: 5/21/07, 8/7/07, 11/2/07

Individual from whom additional photos can be obtained (name, address, phone): _____

Other Information relative to site photo reference: _____

If required to complete Level 3 monitoring only stop here; otherwise,

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Planted live stakes and bareroot seedlings noted on the streambank and in the floodplain consisted of black willow, silky dogwood, river birch, black cherry, water oak, and willow oak. Other herbaceous and woody species noted were *Juncus* sp., sedge, woolgrass, fennel, goldenrod, pine, pokeweed, *Scirpus* sp., clover, ragweed, alder, sweetgum, tulip poplar, sycamore, red maple, and cattail.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the 3rd quarterly monitoring evaluation for this stream relocation. The stream is stabilized except for a crossvane located at approx. Sta. 546+75. The contractor was made aware of the problem and repaired the crossvane failure on November 30. Last quarter a crossvane located at approx. Sta. 545+60 had water piping under. This crossvane now has water flowing over the structure. NCDOT will continue to monitor this stream relocation.

11/2/07	Sta. 546 +75	Station Number	Station Number	Station Number	Station Number
Structure Type	Crossvane				
Is water piping through or around structure?	Water is piping under the crossvane				
Head cut or down cut present?	Slight headcut				
Bank or scour erosion present?	Left arm of crossvane has dropped into channel				
Other problems noted?					

Site 6



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)

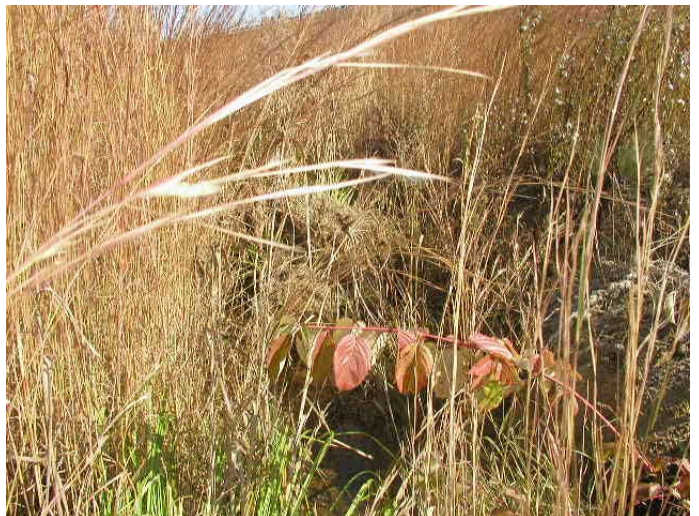


Photo Point #3 (Downstream)

Site 6



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

Site 6



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)

Site 6



Crossvane failure @ Sta. 546+75

3rd Quarter – November 2007